

# Siyi Xu

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## Work Experience

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- 2024 – present Associate Astronomer (*Tenured*), Science User Support Department  
**Gemini Observatory/NSF's NOIRLab**, Tucson, USA  
*Develop and implement Gemini user support and communication plan, strategic planning for the observatory*
- 2025 – present Exoplanet Discipline Scientist (*part-time*)  
**International Space Science Institute (ISSI)**, Bern, Switzerland  
*Establish new initiatives, leverage ISSI's unique resources to organize impactful workshops, forums, and meetings*
- 2021 – 2024 Associate Astronomer, Science Operations  
2017 – 2021 Assistant Astronomer, Science Operations  
**Gemini Observatory/NSF's NOIRLab**, Hilo, USA  
*Tenure-track astronomer, 50% for observatory support and 50% for research  
Instrument scientist for GNIRS & MAROON-X, Project Scientist for IGRINS-2  
Nighttime Observer (>50 nights), Queue Coordinator (>200 days),  
Contact Scientist (>200 programs)*
- 2014 – 2017 Postdoctoral Fellow, Directorate for science  
**European Southern Observatory**, Garching, Germany  
*Independent research fellowship*  
Fellow Astronomer, Science Operations  
**Cerro Paranal Observatory/Very Large Telescope**, Chile  
*Science operations (100 nights) with X-SHOOTER, UVES, & FLAMES  
quality assessment of the data, and support of visitors*

## Education

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- 2010 – 2014 **Ph.D. Astronomy**, Advisor: Michael A. Jura  
**University of California, Los Angeles**, USA
- 2006 – 2010 **B.S. Astronomy**  
**Nanjing University**, China

## Telescope Time & Awards

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### Telescope Time as Principal Investigator

#### **Hubble Space Telescope**

*COS & STIS* (67 orbits, Grant ~ \$300,000)

GO #14117, #14467, #14646, #15155, GO #15494, GO #15854, GO #16204

#### **Spitzer Space Telescope**

*IRAC* (90 hr): #10175, #12128, #13065, #14220

#### **Keck Telescope**

*NIRES* (2 nights, NASA Grant ~ \$30,000): 2023B\_N159, 2025A\_N123

*HIRESb & HIRESr* (10 nights, NASA Grant ~ \$90,000)

2019A\_N049, 2019B\_N072, 2020A\_N018, 2020B\_N124, 2021A\_N056, 2021B\_N075

#### **Gemini Observatory**

*GMOS* (23 hr): GN-2020B-Q-131, GN-2021B-FT-110, GS-2025A-Q-142, GN-2025A-Q-144

*GNIRS* (13 hr): GN-2019B-DD-107, GN-2021B-Q-325, GN-2023B-Q-327

*NIRI* (24 hr): GN-2017B-FT-22, GN-2018B-FT-208, GN-2019A-Q-303, GN-2019B-Q-237

*FLAMINGOS-2* (34 hr): GS-2018B-FT-204, GS-2019A-Q-301, GS-2019B-Q-237,

GS-2021B-Q-244, GS-2022A-FT-205, GS-2023A-FT-210, GS-2023B-Q-231

*Zorro* (2 hr): GS-2022B-FT-107

*MAROON-X* (8.4 hr): GN-2023B-FT-107, 2024A-FT-101

#### **Very Large Telescope**

*X-SHOOTER* (91 hr, 2018-2020): 103.C-0431, 104.C-0107, 105.C-0518, 106.2130

*HAWKI* (8 hr, 2017): 099.C-0082

*SPHERE* (6 hr, 2014-2017): 60.A-9373, 099.C-0264

*FORS2* (5 hr, 2016): 296.C-0524

*UVES* (25 hr, 2015): 095.C-0439, 095.C-0564, 096.C-0132, 096.C-0135

### Awards & Grants

NASA Topical Workshops, Symposiums, and Conferences (TWSC-24)  
in Space and Earth Sciences and Technology, 2024 (PI: N. Hinkel)

*Leverhulme Center for Life in the Universe*, invited visitor,

University of Cambridge, UK, 2024

*AAS Dependent Care Award*, 2024

NASA Citizen Science Seed Funding proposal, 2023 (PI: A. Meisner)

*Rice Family Fund Fellowship*, 2022

NASA XRP Grant, *Characterizing Rejuvenated Exoplanetary Systems*,  
2021 (PI: K. Su)

*AURA, Science Award*, 2020

Scialog Research Grant, \$55,000, *Heising-Simons Foundation*, 2019

Scialog Fellow, *Research Corporation & Heising-Simons Foundation*, 2019

Seal of Excellence, *Marie Skłodowska-Curie Actions*, 2017

Best Talk, *ESO Science Day*, 2016

Best Presentation, *Frontiers of Stellar Spectroscopy*, Heidelberg, 2015

*International Astronomical Union* travel grant, 2012

Excellence Completion of *National Undergraduate Innovative Program*,  
Nanjing University, 2008

*Renmin Fellowship*, Nanjing University, 2007

## Service

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<i>Proposal &amp; Grant Review</i>	<i>Gemini DDT Committee, 2025</i> <i>NOIRLab Proposal, Galactic TAC Chair, 2025A</i> <i>NASA ULTRASAT, Review Panel, 2023</i> <i>Israel Science Foundation, grant reviewer, 2021</i> <i>JWST Cycles 3 &amp; 4, External Reviewer, 2023 to 2024</i> <i>JWST Cycle 1, Review Panel, 2021</i> <i>Spitzer DDT, Reviewer, 2019</i> <i>Hubble Cycle 26 &amp; 27, External Reviewer, 2018 to 2019</i> <i>Hubble Cycle 25, Review Panel, 2017</i> <i>GRAVITY Science Verification Proposal Selection Committee, 2016</i> <i>NASA Exoplanets Research Program, External Review, 2016</i> <i>ALMA Cycle 4, Technical Secretary, 2016</i>
<i>Instrumentation Project</i>	<i>Gemini/GHOST System Verification, Lead, 2023</i> <i>Gemini/IGRINS-2, Project Scientist, 2022 to present</i> <i>Gemini/GNIRS IFU Upgrade, Project Scientist, 2019 to 2022</i> <i>Gemini/GNIRS Refurbishment, Project Scientist, 2019 to 2022</i> <i>Gemini Program Platform, Inception Design Review, 2020</i> <i>Gemini Program Platform, Conceptual Design Review, 2019</i>
<i>Hiring Committee</i>	<i>Gemini Director Hiring Committee, 2024</i> <i>NOIRLab Integrated Hiring Committee, 2023</i> <i>NOIRLab Fellowship Committee, 2023</i> <i>Gemini Science Fellow Selection Committee, 2020</i> <i>ESO Fellow Selection Committee, Garching, 2017</i>
<i>Other Committee Service</i>	<i>Habitable World Observatory, Stars &amp; Stellar Population sub-group, steering committee, 2024 to present</i> <i>Dark Energy Spectroscopic Instrument (DESI) collaboration, full-member, 2024 to present</i> <i>Reviews in Mineralogy &amp; Geochemistry (RiMG): Exoplanets: Compositions, Mineralogy, Evolution, Editor, 2024</i> <i>LSST Catalyst fellowship, ideas lab, organizing committee, 2022</i> <i>NOIRLab/CSDC Data Strategy Team, 2022 to 2024</i> <i>NOIRLab Library Council Committee, 2021 to 2023</i> <i>NOIRLab Strategic Vision Team, 2020</i>
<i>Referee for</i>	<i>AAS Journals</i> <i>Astronomy &amp; Astrophysics</i> <i>Monthly Notices of the Royal Astronomical Society</i> <i>Nature</i> <i>Nature Astronomy</i>

*Meetings or Colloquia Organized*

- 24th European White Dwarf Workshop, Barcelona, Spain, 2024 (SOC)
- Dust Devils: Debris Disks in the Sonoran Desert, Tucson, 2024 (SOC)
- AAS 243 Splinter Session: The Present and Future of Exoplanet Science with the Gemini Observatory, New Orleans, 2024
- Gemini Science Meeting, Korea, 2022 (SOC)
- Gemini Science Meeting, virtual, 2021 (SOC co-chair)
- JWST Proposal Workshop, Hilo, 2020 (SOC & LOC)
- IAU Symposium 357: White Dwarfs as Probes of Fundamental Physics and Tracers of Planetary, Stellar & Galactic Evolution, Hilo, 2019 (SOC & LOC)
- Planetary Systems Beyond The Main Sequence II, Isreal, 2017 (SOC)
- Wine & Cheese talk, ESO, 2015 to 2017
- Stellar Coffee and Planetary Tea, ESO & MPA/MPE, 2014 to 2016
- Astronomy Graduate Colloquium Coordinator, UCLA, 2012 to 2013
- Astronomy Journal Club Coordinator, UCLA, 2011 to 2012

## Public Outreach & Press

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*Education & Public Outreach*

- Student & Postdoc Mentor for the DESI (Dark Energy Spectroscopic Instrument) Collaboration, 2023 to 2024
- Astronomy Educator, Journey Through the Universe, Hilo, US, 2019 to 2023
- Astronomy on Tap: Where are we in five billion years? (Chinese), 2022
- NOIRLab Stories: A glimpse into the Solar System's future, 2021
- Speaker at NOIRLab Live, 2020
- Career Panel, Kea'au Middle School, Hilo, US, 2018
- Public Talk, Astronomy for non-Astronomers, ESO, Germany, 2017
- Messenger article, Fellows at ESO, 166, 68, 2016
- Volunteer at ESO Open House Day, Germany, 2016
- Astronomer in Hubble Podcast #95, 2016
- Public Talk, Kunshan Middle School, China, 2015
- Host shows at UCLA planetarium, US, 2011 to 2014
- Member of UCLA outreach group Astronomy Live!, US, 2010 to 2014
- Vice President of Astronomy Club, Nanjing University, China, 2008 to 2009

*Selected Press Releases*

- Nature/NOIRLab: Rocky Exoplanets Are Even Stranger Than We Thought, 2021
- NASA/NOIRLab: NASA Missions Spy First Possible 'Survivor' Planet Hugging White Dwarf Star, 2020
- Astronomy Magazine: White Dwarfs and Water, 2018
- EurekAlert: Study of material surrounding distant stars shows Earth's ingredients 'pretty normal', 2018
- STScI/NASA/ESA: Hubble finds big brother of Halley's Comet ripped apart by white dwarf, 2017
- NASA/JPL: Can Planets be Rejuvenated around Dead Stars? 2015
- Kunshan Daily: The Quest for the Brightest Star, 2015
- Physics World: Cold Hydrogen Molecules Found on Hot Stars, 2013

## Student Supervision

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<b>Students Supervised</b>	Érika Le Bourdais (with Prof. P. Dufour), <i>University of Montreal</i> , Canada, Ph.D. student, 2022 to present
	Elene Zaldua Del Olmo (with Prof. M. Kissler-Patig), <i>Universidad Complutense de Madrid</i> , Spain, M.S. student, 2022 to 2023
	Dylan Owens, <i>Gemini</i> science intern, 2021 to 2022
	Cristina Favieres (with Prof. M. Kissler-Patig), <i>Universidad Complutense de Madrid</i> , Spain, M.S. student, 2021 to 2022
	Rocio Kiman (with Dr. J. Faherty), <i>American Museum of Natural History</i> , US, Ph.D. student, 2020 to 2022
	Laura Rogers (with Dr. A. Bonsor), <i>University of Cambridge</i> , UK, Ph.D. student, 2017 to 2022
	Samuel Lai, <i>Gemini</i> science intern, 2020
	Amy Steele (with Dr. J. Debes), <i>University of Maryland</i> , US, Ph.D. student, Ph.D. student, 2018 to 2020
	Maude Fortin-Archambault (with Prof. P. Dufour), <i>University of Montreal</i> , Canada, M.S. student, 2018 to 2019
	Angeliki Psaridi (with Prof. M. Kissler-Patig), <i>Ludwig Maximilian University</i> , Germany, M.S. student, 2018 to 2019
	Pa Chia Thao, <i>Gemini</i> science intern, 2018
	Nathaniel N. Monson (with Prof. E. D. Young), <i>UCLA</i> , US, Ph.D. student, 2016 to 2017
	Na'ama Hallakoun, <i>ESO</i> , Germany, Ph.D. student, 2015 to 2017
	Guochao Sun, <i>UCLA</i> , US, B.S. student, 2013 to 2014
	Blake Pantoja, <i>REU</i> student, US, summer 2013
	Misaki Nabeshima, <i>UCLA</i> , US, B.S. student, 2012 to 2013

## Talks & Colloquia

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<b>Invited Conference Talks</b>	<ul style="list-style-type: none"><li>• ISSI Workshop: <i>Exocomets: Bridging our Understanding of Minor Bodies in Solar and Exoplanetary Systems</i>, Bern, Switzerland, 2024</li><li>• Gordon Research Conference: <i>Origins of Solar Systems</i>, Boston, US, 2023</li><li>• Aspen Winter Conference: <i>Exoplanet Systems and Stellar Life Cycles: Late-Stage and Post-MS Systems</i>, Aspen, US, 2023</li><li>• KITP Conference: <i>White Dwarfs as Probes of the Evolution of Planets, Stars the Milky Way and the Expanding Universe</i>, Santa Barbara, US, 2022</li><li>• <i>Celebrating the Legacy of the Spitzer Space Telescope</i>, Caltech, US, 2020</li><li>• <i>Exocomets: Understanding the composition of planetary building blocks</i>, Lorentz center, Netherlands, 2019</li><li>• <i>Goldschmidt Conference</i>, Boston, US, 2018</li><li>• <i>Exoplanets Orbiting Hot Stars</i>, Vanderbilt University, US, 2018</li><li>• Gordon Research Conference: <i>Origins of Solar Systems</i>, Boston, US, 2017</li><li>• <i>From Dust to Planet</i>, Lyon Observatory, France, 2016</li><li>• <i>Michael Jura Memorial Symposium</i>, UCLA, US, 2016</li><li>• <i>American Astronomical Society Meeting #221</i>, Long Beach, US, 2012</li></ul>
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**Talks &  
Colloquia**

- *Colloquium Talk*, University of Oklahoma, Oklahoma City, US, 2024
- *Colloquium Talk*, Boston University, Boston, US, 2023
- *Rocky Worlds Discussion*, 2023 (*virtual*)
- *Colloquium Talk*, University of Montreal, Canada, 2023
- *Colloquium Talk*, Nanjing University, China, 2022 (*virtual*)
- *Seminar Talk*, Carnegie Institution for Science, Washington D. C., US, 2022 (*virtual*)
- *Colloquium Talk*, University of North Carolina, Chapel Hill, US, 2021 (*virtual*)
- *Colloquium Talk*, University of Warwick, UK, 2021 (*virtual*)
- *Exoplanet seminar*, Chinese Academy of Sciences South America Center for Astronomy (CASSACA), Santiago, Chile, 2020 (*virtual*)
- *Colloquium talk*, Earth, Planetary, and Space Science (EPSS), UCLA, US, 2020
- *Lunch talk*, Keck Observatory, Waimea, US, 2019
- *Colloquium talk*, NOAO, Tucson, US, 2019
- *Colloquium talk*, California State University, Fresno, US, 2019
- *Colloquium talk*, Nanjing University, China, 2018
- *Colloquium talk*, Institute for Astronomy, Hawaii, US, 2017
- *Colloquium talk*, ASIAA, Taiwan, 2016
- *Seminar*, Pontificia Universidad Catolica de Chile (PUC), Chile, 2016
- *Star and Planet Formation Seminar*, STScI, Baltimore, US, 2016
- *Exoplanet Seminar Talk*, University of Cambridge, UK, 2016
- *Colloquium talk*, University of Tuebingen, Germany, 2016
- *NOAO flash talk*, Arizona, US, 2016
- *Colloquium Talk*, University of Warwick, UK, 2015
- *Colloquium Talk*, ETH, Zurich, Switzerland, 2015
- *CRAL seminar*, Centre de Recherche Astrophysique de Lyon, France, 2015
- *Lunch Talk*, Department of Terrestrial Magnetism, Washington D. C., US, 2014
- *Lunch Talk*, Carnegie Observatories, Pasadena, US, 2013
- *Lunch Talk*, Nanjing University, China, 2013
- *Lunch talk*, National Astronomical Observatories, Beijing, China, 2013

## **Selected Refereed Publications**

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See ORCID [0000-0002-8808-4282](https://orcid.org/0000-0002-8808-4282) for a complete publication list

<sup>†</sup> *Students/postdocs supervised by S.X.*

**First Author:**

18. [Modeling Circumstellar Gas Emission around a White Dwarf using Cloudy](#)

**Xu, S.**, Yeh, S., Rogers, L. K.<sup>†</sup>, et al., 2024, *AJ*, 167, 248

17. [The chemistry of extra-solar materials from white dwarf planetary systems](#)

**Xu, S.**, Rogers, L. K.<sup>†</sup>, & Blouin, S., *Reviews in Mineralogy & Geochemistry (RiMG)*, 90, 171

16. [Gemini/GMOS Transmission Spectroscopy of the Grazing Planet Candidate WD 1856 b](#)

**Xu, S.**, Diamond-Lowe, H., & MacDonald J. R., et al. 2021, *AJ*, 162, 292

15. [Exo-Geology: Insights from Dead Stars](#)

**Xu, S.**, & Bonsor, A., *Elements*, 2021, v17n4



14. *Infrared Excesses around Bright White Dwarfs from Gaia and unWISE I*  
**Xu, S.**, Lai, S.<sup>†</sup>, & Dennyhy, E.<sup>†</sup> 2020, ApJ, 902, 127
13. *Compositions of Planetary Debris around Dusty White Dwarfs*  
**Xu, S.**, Dufour, P., Klein, B., et al. 2019, AJ, 158, 242
12. *Shallow Ultraviolet Transits of WD 1145+017*  
**Xu, S.**, Hallakoun, N.<sup>†</sup>, Gary, B., et al. 2019, AJ, 157, 255
11. *Infrared Variability of Two Dusty White Dwarfs*  
**Xu, S.**, Su, K. Y. L., Rogers, L. K.<sup>†</sup>, et al. 2018, ApJ, 866, 108
10. *A dearth of small particles in the transiting material around the white dwarf WD 1145+017*  
**Xu, S.**, Rappaport, S., van Lieshout, R., et al. 2018, MNRAS, 474, 4795
9. *The Chemical Composition of an Extrasolar Kuiper-Belt-Object*  
**Xu, S.**, Zuckerman, B., Dufour, P., et al. 2017, ApJL, 836, L7
8. *Evidence for Gas from a Disintegrating Extrasolar Asteroid*  
**Xu, S.**, Jura, M., Dufour, P., et al. 2016, ApJL, 816, L22
7. *An Extreme-AO Search for Giant Planets around a White Dwarf: VLT/SPHERE performance on a faint target GD 50*  
**Xu, S.**, Ertel, S., Wahhaj, Z., et al. 2015, A&A, 579, L8
6. *A Young White Dwarf with an Infrared Excess*  
**Xu, S.**, Jura, M., Pantoja, B.<sup>†</sup>, et al. 2015, ApJL, 806, L5
5. *The Drop during Less than 300 Days of A Dusty White Dwarf's Infrared Luminosity*  
**Xu, S.**, & Jura, M. 2014, ApJL, 792, L39
4. *Elemental Compositions of Two Extrasolar Rocky Planetesimals*  
**Xu, S.**, Jura, M., Koester, D., et al. 2014, ApJ, 783, 79
3. *Two Beyond-Primitive Extrasolar Planetesimals*  
**Xu, S.**, Jura, M., Klein, B., et al. 2013, ApJ, 766, 132
2. *Discovery of Molecular Hydrogen in White Dwarf Atmospheres*  
**Xu, S.**, Jura, M., Koester, D., et al. 2013, ApJL, 766, L18
1. *Spitzer Observations of White Dwarfs: the Missing Planetary Debris Around DZ Stars*  
**Xu, S.**, & Jura, M. 2012, ApJ, 745, 88

**Co-Author with Significant Contribution:**

25. *Revisiting the Chemical Composition of WD 1145+017: Impact of Circumstellar Disk Contamination on Photospheric Abundances*  
 Le Bourdais, É.<sup>†</sup>, Dufour, P., & **Xu, S.** 2024, ApJ
24. *A Sample of 554 White Dwarfs Showing Infrared Excess from Gaia EDR3 and CatWISE Catalogs*  
 Favieres, C. M.<sup>†</sup>, Kissler-Patig M., **Xu, S.**, Bonsor, A., 2024, A&A, 688, A168
23. *Seven white dwarfs with circumstellar gas discs II: tracing the composition of exoplanetary building blocks*  
 Rogers, L. K.<sup>†</sup>, Bonsor, A., **Xu, S.**, et al. MNRAS, 2024, 532, 3866

22. *Seven white dwarfs with circumstellar gas discs I: White dwarf parameters and pollutant abundances*  
Rogers, L. K.<sup>†</sup>, Bonsor, A., **Xu, S.**, et al. MNRAS, 2024, 527, 6038
21. *Disk or Companion: Characterizing Excess Infrared Flux in Seven White Dwarf Systems with Near-infrared Spectroscopy*  
Owens, D.<sup>†</sup>, **Xu, S.**, Manjavacas, E., et al. 2023, AJ, 166, 5
20. *wdwarfdage: A Python Package to Derive Bayesian Ages of White Dwarfs*  
Kiman, R.<sup>†</sup>, **Xu, S.**, Faherty, J. K., et al. 2022, AJ, 164, 62
19. *Gaia 0007-1605: an old triple system with an inner brown dwarf-white dwarf binary and an outer white dwarf companion*  
Rebassa-Mansergas, A., **Xu, S.**, Raddi, R., et al. 2022, ApJL, 927, L31
18. *No evidence for a strong decrease of planetesimal accretion in old white dwarfs*  
Blouin, S., & **Xu, S.**, 2022, MNRAS, 510, 1059
17. *Polluted White Dwarfs Reveal Exotic Mantle Rock Types on Exoplanets in our Solar Neighborhood*  
Putirka, K., & **Xu, S.**, 2021, Nature Communications, 12, 6168
16. *Infrared Excesses around Bright White Dwarfs from Gaia and unWISE II*  
Lai, S.<sup>†</sup>, Dennihy, E.<sup>†</sup>, **Xu, S.**, et al., 2021, ApJ, 920, 156L
15. *A Characterization of the Circumstellar Gas around WD 1124-293 Using Cloudy*  
Steele, A.<sup>†</sup>, Debes, J., **Xu, S.**, et al. 2021, ApJ, 911, 25
14. *Five New Post-Main-Sequence Debris Disks with Gaseous Emission*  
Dennihy, E.<sup>†</sup>, **Xu, S.**, Lai, S.<sup>†</sup>, et al. 2020, ApJ, 905, 5
13. *A Giant Planet Candidate Transiting a White Dwarf*  
Vanderbrug, A., Rappaport, S., **Xu, S.**, et al. 2020, Nature, 585, 363
12. *Spitzer's debris disk legacy from main-sequence stars to white dwarfs*  
Chen, C. H., Su, K. Y. L., & **Xu, S.** 2020, Nature Astronomy, 4, 328
11. *Near-infrared variability in dusty white dwarfs: tracing the accretion of planetary material*  
Rogers, L. K.<sup>†</sup>, **Xu, S.**, Bonsor, A., et al. 2020, MNRAS, 494, 2861
10. *Modeling of the Variable Circumstellar Absorption Features of WD 1145+017*  
Fortin-Archambault, M.<sup>†</sup>, Dufour, P., & **Xu, S.** 2020, ApJ, 888, 47
9. *The critical binary star separation for a planetary system origin of white dwarf pollution*  
Veras, D., **Xu, S.**, & Rebassa-Mansergas, A. 2018, MNRAS, 473, 2871
8. *Planetary Systems around White Dwarfs*  
Bonsor, A., & **Xu, S.** 2017, Astrophysics and Space Science Library, 445, 229
7. *Once in a blue moon: detection of 'bluing' during debris transits in the white dwarf WD 1145+017*  
Hallakoun, N.<sup>†</sup>, **Xu, S.**, Maoz, D., et al. 2017, MNRAS, 469, 3213
6. *<sup>26</sup>Al in the Early Solar System: Not so Unusual After All*  
Jura, M., **Xu, S.**, & Young, E. D. 2013, ApJL, 775, L41
5. *The Hyades Cluster: Identification of a Planetary System and Escaping White Dwarfs*  
Zuckerman, B., **Xu, S.**, Klein, B., et al. 2013, ApJ, 770, 140



4. *Extrasolar Refractory-Dominated Planetesimals: an Assessment*  
Jura, M., & **Xu, S.** 2013, AJ, 145, 30
3. *Two Extrasolar Asteroids with Low Volatile-Element Mass Fractions*  
Jura, M., **Xu, S.**, Klein, B., et al. 2012, ApJ, 750, 69
2. *Water Fractions in Extrasolar Planetesimals*  
Jura, M., & **Xu, S.** 2012, AJ, 143, 6
1. *The Survival of Water within Extrasolar Minor Planets*  
Jura, M., & **Xu, S.** 2010, AJ, 140, 1129